

Supplementary data

Table 1. Patients according to hospital and type of dialysis

	IHD (n)	Standard dialysis (n)
Hospital Universitario Vall de Hebron (HUHV)	15	
Hospital del Mar (HM)	2	
Hospital 12 Octubre (HDO)		8

Table1. Abbreviations: IHD: intensive hemodialysis.

Table 2. Pathological findings of renal biopsies.

	(n= 11)	Hemodialysis Dependent (n= 5)	Hemodialysis Independent (n=6)	P value
Cast Nephropathy (% , n)	90.9 (10)	100(5)	83.3(5)	1
Amyloidosis (% , n)	0 (0)	0(0)	0(0)	-
LCCD/MIDD (% ,n)	9.1(1)	0(0)	16.7(1)	1
ATN (% ,n)	18.2 (2)	20(1)	16.7(1)	1
Fibrosis (% ,n)				0.497
None	27.3 (3)	40(2)	16.7(1)	
Mild	63.6(7)	60(3)	66.7(4)	
Moderate	9.1(1)	0(0)	16.7(1)	
severe	0(0)	0(0)	0(0)	

Table 3. Main characteristics according with the use of bortezomib

	Bortezomib (n= 21)	Without Bortezomib (n=4)	p
Age, years	70.6 (11.36)	69.25 (3.9)	0.796
>65 years (% , n)	44 (65)	75 (3)	1
Gender, male (% , n)	52 (13)	75 (3)	0.593
Previous CKD (GFR<60ml/min) (% , n)	44 (11)	50 (2)	1
De novo (% , n)	90.5 (19)	0 (0)	0.001
Baseline serum FLC, mg/L (IQR)	9181 (3757- 11430)	7322(5070-)	0.920
FLC Kappa/Lambda (% , n)	57.1 (12) / 42.9 (9)	50(2) /50 (2)	1
Time to MM target therapy initiation, days (IQR)	5.5 (3-27)	2.5 (0-5.75)	0.140
Hematological response after first cycle (% , n)	38.1 (8)	50(2)	1
MM response (CR/VGPR) (%)	52.4 (11)	50(2)	1
FLC reduction by day 21 (% , n)			0.354
<50	14.3 (3)	0 (0)	
50-75	19 (4)	0 (0)	
>75	42.9 (9)	75 (3)	
Serum creatinine, mg/dL, (sd)	7.2 (2.85)	4.44 (1.13)	0.073

Dialysis independence (% <i>n</i>)		3(75)	0.604
Renal Biopsy (% <i>n</i>)	47.6(10)	25 (1)	0.001
Proteinuria, mg/day	3300(1325-6000)	5000(1320-7825)	0.626
Ca >10.5 mg/dL (% <i>n</i>)	38.1 (8)	25(1)	1
Diuresis>500ml/day (% <i>n</i>)	61.9 (13)	50(2)	1
Exitus (% <i>n</i>)	61.9 (13)	75(3)	1

Table 4. Main characteristics of IHD and standard hemodialysis groups

	HUHV (<i>n</i> = 15)	HM (<i>n</i> =2)	HDO (8)	<i>p</i>
Age, years	60 (9)	60 (8.4)	77.8 (6.4)	0.051
>65 years (% <i>n</i>)	73.3 (11)	50 (1)		0.502
Gender, male (% <i>n</i>)	60 (9)	100(2)	25(2)	0.102
Previous CKD (GFR<60ml/min) (% <i>n</i>)	40 (6)	0 (2)	62.5 (5)	0.249
De novo (% <i>n</i>)	73.3 (11)	100 (2)	75(6)	0.707
Baseline serum FLC, mg/L (IQR)	9084 (3870-11857)	5670	7173 ^a	0.784
FLC Kappa/Lambda (% <i>n</i>)	46.7 (7) / 53.3 (8)	100(2) /0 (0)	25(2) /75(6)	0.153
Bortezomib-based therapy (% <i>n</i>)	80 (12)	100 (2)	87.5(7)	0.729
Time to MM target therapy initiation, days (IQR)	5 (2.5-9)	2.5	26(1.75-30.75)	0.253
Hematological response after first cycle (% <i>n</i>)	46.7 (7)	100 (2)	37.5(3)	0.442
MM response (CR/VGPR) (%)	46.7 (7)	100 (2)	25 (2)	0.153
IHD (% <i>n</i>)	100 (15)	100 (2)	0(100)	0.000
FLC reduction by day 21 (% <i>n</i>)				0.062
<50	6.7 (1)	50 (1)	50(1) ^a	
50-75	13.3 (2)	50 (1)	50(1) ^a	
>75	80 (12)	0 (0)		
Serum creatinine, mg/dL, (sd)	6.79 (3.02)	6.45 (1.06)	6.79 (3.01)	0.988
Renal Biopsy (% <i>n</i>)	33,3 (5)	100 (2)	50(4)	0.187
Proteinuria, mg/day	4900 (3150 - 6550)		290(241-486.75)	0.033
Ca >10.5 mg/dL (% <i>n</i>)	40 (6)	100 (2)	12.5(1)	0.062
Diuresis>500ml/day (% <i>n</i>)	80 (12)	50 (1)	28.5(2)	0.063
Exitus (% <i>n</i>)	60 (9)	50 (1)	75(6)	0.707

Abbreviations: IHD: intensive hemodialysis.; CKD: Chronic Kidney Disease; FLC: Free Light Chains ; MM: Myeloma Multiple; CR: Complete response; VGPR: Very good partial response; Ca: Calcium

^a date from 2 patients

Table 5. Main characteristics according kind of membranes

	HFR (n= 10)	PMMA (n=7)	p
Age, years	69 (9.8)	64.7 (14.3)	0.051
>65 years (% n)	80 (8)	57.1 (4)	0.593
Gender, male (% n)	60 (9)	57.1(4)	0.162
Previous CKD (GFR<60ml/min) (% n)	30 (3)	42.9 (3)	0.644
De novo (% n)	80 (8)	71.4 (5)	1
Baseline serum FLC, mg/L (IQR)	7281 (4657- 11605)	5670	0.845
FLC Kappa/Lambda (% n)	50 (5) / 50 (5)	57.1(4)/42.9 (3)	1
Bortezomib-based therapy (% n)	90 (9)	71.4 (5)	0.537
Time to MM target therapy initiation, days (IQR)	5 (3-13)	2.5	0.165
Hematological response after first cycle (% n)	60 (6)	14.3 (1)	0.134
MM response (CR/VGPR) (%)	60 (6)	42.9 (3)	0.637
FLC reduction by day 21 (% n)			0.603
<50	10 (1)	14.3 (1)	
50-75	30 (3)	0 (1)	
>75	60 (12)	85.7 (7)	
Serum creatinine, mg/dL, (sd)	7.75 (3.3)	5.3 (1.2)	0.988
Renal Biopsy (% n)	50 (5)	28.7 (2)	0.6222
Proteinuria, mg/day			0.634
Ca >10.5 mg/dL (% n)	50 (5)	42.9 (3)	1
Diuresis>500ml/day (% n)	70 (7)	85.7 (6)	0.622
Exitus (% n)	70 (3)	42.9 (1)	0.350

Abbreviations:HFR: hemodiafiltration with endogenous reinfusion; PMMA: polymethylmethacrylate; CKD: Chronic Kidney Disease; FLC: Free Light Chains ; MM: Myeloma Multiple; CR: Complete response; VGPR: Very good partial response: Ca: Calcium